

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-28 (Canceled)

29. (Currently Amended) The composition for a liquid crystal display cell sealant as described in claim 27 68, wherein an aqueous solution obtained by admixing the composition with the same mass of purified water as that of the composition has an ionic conductivity of 1 mS/m or less.

Claims 30-33 (Canceled)

34. (Currently Amended) The composition for a liquid crystal display cell sealant as described in claim 27 68, wherein the curing agent is at least one selected from the group consisting of phenol novolak resins, phenol aralkyl resins, naphthol novolak resins, naphthol aralkyl resins, alicyclic compound-modified phenol novolak resins, alicyclic compound-modified naphthol novolak resins, polycyclic aromatic compound-modified novolak resins, polyphenol monomers, polyvinylphenols, vinylphenol copolymers,

polyisopropenylphenols, polyisopropenylphenol copolymers, esterified phenol novolak resins, esterified phenol aralkyl resins, esterified naphthol novolak resins, esterified naphthol aralkyl resins, esterified alicyclic compound-modified phenol novolak resins, esterified alicyclic compound-modified naphthol novolak resins, esterified polycyclic aromatic compound-modified novolak resins, esterified polyphenol monomers, esterified polyvinylphenols, esterified vinylphenol copolymers, esterified polyisopropenylphenols and esterified polyisopropenylphenol copolymers.

35. (Currently Amended) The composition for a liquid crystal display cell sealant as described in claim 27 68, wherein the alkylurea derivative is at least one selected from 3-(p-chlorophenyl)-1,1-dimethylurea, the group consisting of 3-(o,p-dichlorophenyl)-1,1-dimethylurea, 2,4-[bis(1,1-dimethylurea)]toluene and 2,6-[bis(1,1-dimethylurea)]toluene.

Claims 36-44 (Canceled)

45. (Withdrawn) A liquid crystal display element obtained by using the composition for a liquid crystal display cell sealant as described in claim 29.

Claims 46-49 (Canceled)

50. (Withdrawn) A liquid crystal display element obtained by using the composition for a liquid crystal display cell sealant as described in claim 34.

51. (Withdrawn) A liquid crystal display element obtained by using the composition for a liquid crystal display cell sealant as described in claim 35.

52. (Currently Amended) A liquid crystal display element obtained by using the composition for a liquid crystal display cell sealant as described in claim 36-68.

53. (Currently Amended) A liquid crystal display element obtained by using the composition for a liquid crystal display cell sealant as described in claim 37-69.

54. (Currently Amended) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 28-68 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then adjusting the position and superposing the other paired substrate thereon to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 200°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm to form a liquid crystal display cell, and

then charging a liquid crystal material into the above cell and sealing the injection port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

55. (Currently Amended) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 33 69 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then adjusting the position and superposing the other paired substrate thereon to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 200°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm to form a liquid crystal display cell, and

then charging a liquid crystal material into the above cell and sealing the injection port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

56. (Withdrawn) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 34 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then adjusting the position and superposing the other paired substrate thereon to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 200°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm to form a liquid crystal display cell, and

then charging a liquid crystal material into the above cell and sealing the injection port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

57. (Currently Amended) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 37 35 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then adjusting the position and superposing the other paired substrate thereon to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 200°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm to form a liquid crystal display cell, and

then charging a liquid crystal material into the above cell and sealing the injection port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

58. (Currently Amended) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 28 68 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then putting dropwise the liquid crystal thereon and superposing the other paired substrate thereon so that air is not shut therein and adjusting the position to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 150°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm , and

then sealing the respiratory port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

59. (Withdrawn) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 29 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then putting dropwise the liquid crystal thereon and superposing the other paired substrate thereon so that air is not shut therein and adjusting the position to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 150°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm , and

then sealing the respiratory port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

60. (Withdrawn) A production process for a liquid crystal display element comprising any of TN liquid crystal, STN liquid crystal, ferrodielectric liquid crystal and anti-ferrodielectric liquid crystal, comprising the steps of:

printing or dispenser-coating the composition for a liquid crystal display cell sealant as described in claim 34 on a bonding and sealing part of a glass-made or plastic-made substrate for a liquid crystal cell and precuring it at a temperature of 50 to 120°C,

then putting dropwise the liquid crystal thereon and superposing the other paired substrate thereon so that air is not shut therein and adjusting the position to temporarily fix them,

subjecting the paired substrates to hot cramping treatment at 80 to 150°C to bond and fix the above paired substrates in a homogeneous thickness falling in a range of 1 to 7 μm , and

then sealing the respiratory port with a photocuring type liquid crystal sealant composition or a two-liquid type liquid crystal sealant composition.

61. (Currently Amended) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 33-54.

62. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 55.

63. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 56.

64. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 57.

65. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 58.

66. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 59.

67. (Withdrawn) A liquid crystal display element obtained by the production process for a liquid crystal display element as described in claim 60.

Please add the following new claims 68 and 69:

--68. (New) A composition for a liquid crystal display cell sealant comprising:

(1) 20 to 83.9 mass % of an epoxy resin having 1.7 or more epoxy groups on a mass average in a molecule, wherein an aqueous solution thereof obtained by admixing with the same mass of purified water as that of the epoxy resin has an ionic conductivity of 10 mS/m or less,

(2) 10 to 45 mass % of a curing agent comprising at least one agent selected from the group consisting of polyphenol compounds, polyphenol resins and esterified

products thereof, wherein an aqueous solution thereof obtained by admixing with purified water of ten times the mass of the curing agent has an ionic conductivity of 2 mS/m or less,

- (3) 0.1 to 5 mass % of a curing accelerator comprising at least one compound selected from the group consisting of alkylurea derivatives and phosphazene compounds,
- (4) 5 to 45 mass % of an inorganic filler,
- (5) 0.1 to 5 mass % of a silane coupling agent,
- (6) 1 to 15 mass % of rubber-like polymer fine particles which have a softening point of 0°C or lower and wherein primary particles thereof have an average particle diameter of 5 μm or less.

69. (New) The composition for a liquid crystal display cell sealant as described in claim 68, which further comprises 0.1 to 25 mass parts of high softening point-acryl polymer fine particles which have a softening point of 50°C or higher and in which primary particles thereof have an average particle diameter of 2 μm or less per 100 mass parts of the composition.--